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APPLICATION NO. FILING DATE		NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,190 12/30/2003		Carlos J. Gonzalez	SNDK.334US0 9150		
36257	7590	08/11/2006		EXAM	INER
PARSONS I		DE RUNTZ LLP		LI, ZI	IUO H
SUITE 1900	ISIKEEI		ART UNIT	PAPER NUMBER	
SAN FRANC	ISCO, CA	94105	2185		

DATE MAILED: 08/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

····		Application No.	Applicant(s)				
		10/750,190	GONZALEZ ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Zhuo H. Li	2185				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE One MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
2a)☐ 3 3)☐ 3	Responsive to communication(s) filed on <u>30 Desemble</u> This action is FINAL . 2b) This Since this application is in condition for allowant closed in accordance with the practice under <i>E</i>	action is non-final. ace except for formal matters, pro					
Dispositio	on of Claims						
4) ☐ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-13 are subject to restriction and/or election requirement. Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ur	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

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DETAILED ACTION

1. This Office action is in responds to Applicant's requested on telephone interview on August 1, 2006, which the previous Office action mailed to the uncorrected address. According, Applicant's address has been updated in USPTO on July 28, 2006. Thus, resend the previous Office action as follow.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-5, and 13, drawn to a structure of a non-volatile memory system comprising an array of non-volatile memory cells with different interleaving arrangements, classified in class 711, subclass 157.
 - II. Claims 6-7, drawn to a method of operating a non-volatile memory for programming into the memory a specified number of units data less than a total data storage capacity of one block in each of the plurality of sub-arrays and having sequential logical address, and the specified number of units of data being programmed relative to the total data storage capacity of one block in each of the sub-arrays, classified in class 711, subclass 172.
 - III. Claims 8-12, drawn to method of operating a non-volatile memory for data being written and read with each of at least a first and second degrees of parallelism in response to at least one characteristic of the received write request, classified in class 711, subclass 168.

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The inventions are distinct, each from the other because of the following reasons:

- 3. Inventions I, II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, invention I has separate utility such as a structure of a non-volatile memory system comprising an array of non-volatile memory cells with different interleaving arrangements, invention II has a separate utility such as to programming into the memory a specified number of units data less than a total data storage capacity of one block in each of the plurality of sub-arrays and having sequential logical address, and the specified number of units of data being programmed relative to the total data storage capacity of one block in each of the sub-arrays, and invention III has a separate utility such as to write and read data with each of at least a first and second degrees of parallelism in response to at least one characteristic of the received write request. See MPEP § 806.05(d).
- 4. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143).

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6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhuo H. Li whose telephone number is 571-272-4183. The examiner can normally be reached on Tues - Fri 9:00am - 6:30pm and alternate Monday..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Kim can be reached on 571-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Zhuo H. Li

Patent Examiner June 21, 2006

MATTHEW KIM SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100